



8. Selection of Preferred Alternatives

The 12 Areas of Mitigation Interest were prioritized based on the number of potential structures benefited, the severity of the flooding adjacent to the structures, the number of public responses, traffic impacts, business impacts, land ownership, existing development, and relative costs of the mitigation alternatives. The decision matrix is shown on the following page.

Table 8.1: Decision Matrix

Exhibit ID	Name	No. of Potential Structures Benefited	No. Structures > 0.5 ft in the 100-year storm	No. Structures > 1 ft in the 100-year storm	Relevant Storm Frequencies	Public Responses	Impacts Traffic Flow?	Impacts Businesses?	Improvements on Public or Private Land?	Parcels Developed?	Potential Cost?	Notes
1	Sapphire Dr culvert crossing near Ruby Dr	2	0	0	100	5	y	n	County/Private	Yes	\$	
2	Ramada Dr maintain/replace driveway culverts	2	?	?	?	2	n	n	County/Private	Yes	\$	May be fixed with maintenance, recent issue after model data
3	Asphalt berm for low side of Sapphire Dr	1	0	0	?	1	n	n	County		\$	
4	Culvert under Amber Rd	1	0	0	10, 100	1	n	n	County		\$	
5	Culvert under Victor Dr, Betty Dr, and Thelma Dr	0	0	0	100	1	y	n	County		\$	
6	Culverts along wash ending at Diamond Dr and Emerald Dr	2	1	1	all	14	y	y	County		\$ -\$\$\$	Scalable depending on how many crossings are improved
7	Wash improvements near Lois Dr and William Dr	3	2	0	all	3	y	n	County/Private	Both	\$\$	
8	Unpaved Sapphire Dr improvements	1	0	0	all	1	n	n	County		\$\$	
9	Improve/protect wash confluence at Rose Quartz Dr	1	0	0	all	1	y	n	County		\$\$ -\$\$\$	Could impact floodplain, triggering FEMA
10	Joan Dr and nearby wash	5	4	2	all	1	y	n	County/Private	Yes	\$\$\$	
11	Detention basin upstream of Topaz Dr	4	3	3	all	16	y	y	State Land		\$\$\$	
12	Improve crossings and wash crossing Topaz Dr	3	2	2	all	2	y	n	County/Private	No	\$\$\$	Could be less if flooding condition is improved instead of resolved